

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An image forming apparatus comprising:
 - a latent image formation portion which forms an electrostatic latent image on a photoreceptor based on an inputted image signal;
 - a development portion which causes a toner to adhere on the electrostatic latent image formed on the photoreceptor, to develop a toner image;
 - a transfer portion which transfers the toner image onto a paper sheet;
 - a carriage portion which carries the paper sheet;
 - a residual quantity detecting portion which detects a toner residual quantity of the development portion;
 - a first detecting portion which detects the toner residual quantity by using the residual quantity detecting portion during printing;
 - a second detecting portion which ~~partially~~ stops supply of power to ~~each portion in the apparatus~~ the transfer portion when shortage of the toner residual quantity is detected by the first detecting portion, and again detects the toner residual quantity by using the residual quantity detecting portion; and
 - a supply portion which supplies the toner to the development portion when the shortage of the toner residual quantity is detected by the second detecting portion.
2. Cancel
3. (Original) The image forming apparatus according to claim 1, wherein redetection of the toner residual quantity by the second detecting portion is performed by stopping a carriage operation of the carriage portion.

4. (Original) The image forming apparatus according to claim 1, further comprising a detachment portion which detaches from the photoreceptor the paper sheet on which the image is transferred, wherein redetection of the toner residual quantity by the second detecting portion is performed by stopping supply of power to the detachment portion.

5. (Original) The image forming apparatus according to claim 1, wherein the second detecting portion redetects the toner residual quantity at the time of warming-up of the apparatus.

6. (Original) The image forming apparatus according to claim 5, wherein the warming-up is carried out immediately after a power supply of the apparatus is turned on.

7. (Original) The image forming apparatus according to claim 5, wherein the warming-up is carried out when one of doors provided to the apparatus is opened/closed.

8. (Original) The image forming apparatus according to claim 5, wherein the warming-up is performed when a power saving mode is canceled after the apparatus is set to the power saving mode.

9. (Currently amended) The image forming apparatus according to claim 1, wherein the supply portion performs supply of the ~~power~~ toner in a next printing operation.

10. (Original) The image forming apparatus according to claim 1, wherein, if the shortage of the toner residual quantity is detected by the first detecting portion during continuous printing in which images are continuously printed on a plurality of paper sheets, the supply portion performs toner supply after a predetermined number of paper sheets are printed.

11. (Original) The image forming apparatus according to claim 1, further comprising an image reading portion which optically reads an original image and provides an image signal corresponding to the original image to the latent image formation portion.

12. (Currently amended) An image forming apparatus comprising:
a latent image formation portion which forms an electrostatic latent image on a photoreceptor based on an inputted image;
a development portion which causes a toner to adhere on the electrostatic latent image formed on the photoreceptor, to develop a toner image;
a transfer portion which transfers the toner image onto a paper sheet;
a carriage portion which carries the paper sheet;
a residual quantity detecting portion which detects a toner residual quantity of the development portion;
a first detecting portion which detects the toner residual quantity by using the residual quantity detecting portion during printing;
a second detecting portion which stops supply of power to the transfer portion and redetects the toner residual quantity by using the residual quantity detecting portion after completion of a current printing operation when shortage of the toner residual quantity is detected by the first detecting portion; and
a supply portion which supplies the toner to the development portion when the shortage of the toner residual quantity is detected by the second detecting portion.

13. (Currently amended) A toner supplying method for an image forming apparatus comprising:
forming an electrostatic latent image on a photoreceptor based on an inputted image signal;

causing a toner to adhere to the electrostatic latent image formed on the photoreceptor by using a developer and developing a toner image;

transferring the toner image onto a paper sheet by using a transfer portion;

detecting a toner residual quantity of the developer during printing;

~~partially~~ stopping supply of power to ~~each portion in the apparatus~~ the transfer portion when shortage of the toner residual quantity in the developer is detected, and again detecting the toner residual quantity; and

supplying the toner to the development portion when the shortage of the toner residual quantity is detected as a result of redetection of the toner residual quantity.

14. Cancel

15. (Currently amended) The toner supplying method for an image forming apparatus according to claim 13, wherein redetection of the toner residual quantity is carried out by stopping a carriage operation ~~of the carriage portion~~ of carrying a paper sheet.

16. (Currently amended) The toner supplying method for an image forming apparatus according to claim 13, further comprising ~~a detachment portion which detaches~~ detaching from the photoreceptor the paper sheet on which the image is transferred by using a detachment portion, wherein redetection of the toner residual quantity is carried out by stopping supply of power to the detachment portion.

17. (Original) The toner supplying method for an image forming apparatus according to claim 13, wherein supply of the toner is performed in a next printing operation.

18. (Original) The toner supplying method for an image forming apparatus according to claim 13, wherein, when the shortage of the toner residual quantity is detected

during continuous printing in which images are continuously printed on a plurality of paper sheets, the toner is supplied after printing a predetermined number of paper sheets.